

# Binary Nozzle ZA-A

MC

## Wide-angle round spray air nozzles with external-mixing pressure system

### Characteristics

of an external-mixing binary nozzle. Finest atomization with the help of an external-mixing binary nozzle with a large spray angle at low liquid pressure. Air pressure is increased to produce finest droplets without a change in the liquid's volume or pressure.

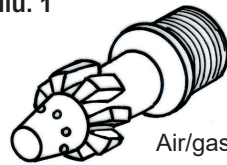
### Material

Stainless steel

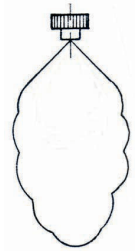
### Application

Atomization of abrasive and highly viscous liquids

Illu. 1



Air/gas and liquid guidance

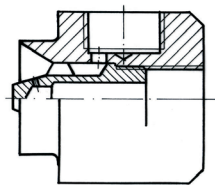


Full or hollow cone approx. 60°

### Different variants are available:

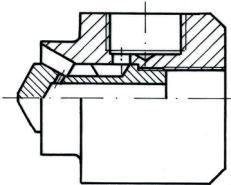
- ZA-A** is the simplest variant; compressed air is caused to rotate in the outlet, then liquid is injected into the rotating air flow.
- ZA-D** corresponds to type ZA-A, however, the atomized air-liquid mixture is guided by a deflector, resulting in the availability of larger spray angles. Please request more information!
- ZA-X** this type also works with rotating compressed air; the atomized medium is pre-atomized in the form of a hollow cone by a swirler.

Illu. 2



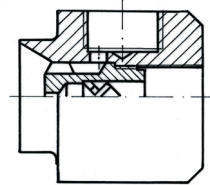
Type ZA-A

Illu. 3



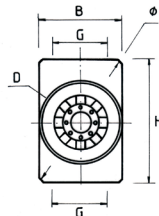
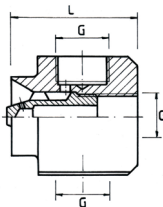
Type ZA-D  
other spray angles possible

Illu. 4



Type ZA-X

Illu. 5

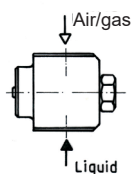


Type	G	L	L1*	H	W	Ø	D
ZA-A 6	1/8" or 1/4"	35	55	30	20	34	24
ZA-A 13 + 16	3/8" or 1/2"	48	78	50	30	52	34

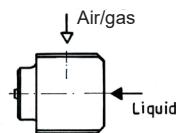
\* Length of variant 3

### Connection possibilities:

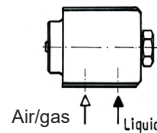
#### Variant 1 Standard



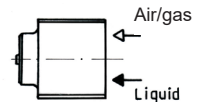
#### Variant 2 Most cost-efficient variant, no control needle possible



#### Variant 3 Both connections on one side



#### Variant 4 Both connections in the back



Type	Flow rate $\dot{V}$ (l/min.) at air pressure (bar)													
	0.2	0.3	0.5	0.7	1.0	1.4	1.7	2.0	2.4	2.8	3.1	3.5	3.8	4.1
ZA-A 6	-	-	-	3.22	4.16	4.73	5.3	5.67	5.94	6.05	-	-	-	-
ZA-A 13	3.8	5.3	4.5	7.6	9.1	10.6	12.1	13.2	14.4	15.5	-	-	-	-
ZA-A 16	-	-	7.6	9.1	11.4	13.2	15.1	16.7	17.8	19.3	20.4	21.2	22.3	23.5

Type	Air consumption (Nm <sup>3</sup> /min.) at air pressure (bar)									
	1.4	2.0	2.8	3.5	4.1	4.9	5.5	6.2	7.0	
ZA-A 6	-	0.377	0.47	0.57	0.66	0.76	0.85	0.95	1.04	
ZA-A 13	-	0.99	1.16	1.27	1.47	1.67	1.9	2.1	-	
ZA-A 16	3.99	1.55	1.90	2.23	2.58	2.92	3.26	-	-	